IFW



In re Application of

PATENT

Norbert WEBER

Serial No.: 10/588,821

Art Unit:

Filed: August 9, 2006

Examiner:

For: **HYDRAULIC ACCUMULATOR**

SUBMISSION OF ENGLISH LANGUAGE PRELIMINARY EXAMINATION REPORT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is an English language Preliminary Examination Report for the above-identified application.

Respectfully submitted,

Mark S. Bicks

Reg. No. 28,770

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Dated: May 8, 2007

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:		
	Bartels und Partner Patentanwälte	Y
BARTELS UND Lange Str. 51 70174 Stuttgart	Fingegangen: TABJINGP 15. NOV. 2006	_
ALLENACNIE	TERMIN	

Date of mailing (day/month/year)
09 November 2006 (09.11.2006)

Applicant's or agent's file reference

40cdh/229329/PCT

International application No. PCT/EP2005/002458

IMPORTANT NOTIFICATION

International filing date (day/month/year) 09 March 2005 (09.03.2005)

Applicant

HYDAC TECHNOLOGY GMBH et al

	Transmittal	of the	translation	to	the	applicant	Ĺ,
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Agnes Wittmann-Regis

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 40cdh/229329/PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/EP2005/002458	International filing date (day/month/year) 09 March 2005 (09.03.2005)	Priority date (day/month/year) 16 April 2004 (16.04.2004)	
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237		
Applicant HYDAC TECHNOLOGY GMBH			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a tot	al of 7 sheets, including this cover sheet.			
	In the attached sheets, any refe to the international preliminary	rence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.			
3.	This report contains indications	s relating to the following items:			
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority			
		Date of issuance of this report			

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Agnes Wittmann-Regis

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The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	TV.	RANC.			
To:			PCT PCT		
			TITTEN OPINION OF THE ONAL SEARCHING AUTHORITY		
			(PCT Rule 43bis.1)		
·		Date of mailing (day/month/year)	See Form PCT/ISA/210 (sheet 2)		
Applicant's or agent's file reference		FOR FURTHER A	CTION		
40cdh/229329/PCT			See paragraph 2 below		
International application No. PCT/EP2005/002458	International filing date (a 09.03.2005	day/month/year)	Priority date (day/month/year) 16.04.2004		
International Patent Classification (IPC) or both		d IDC			
F15B1/24	individur classification and	a irc			
Applicant HYDAC TECHNOLOGY GMBH					
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion					
3. For further details, see notes to Form PC	CT/ISA/220.				
Name and mailing address of the ISA/EP		Authorized officer			
Facsimile No.		Telephone No.			

International application No.

PCT/EP2005/002458

Box	No. I	Basis of this op	inion '
1.	With re	gard to the language, dess otherwise indicat	this opinion has been established on the basis of the international application in the language in which it was ed under this item.
	Ц т	his opinion has been e	stablished on the basis of a translation from the original language into the following language
			, which is the language of a translation furnished for the purposes of international search (under
2.	With re	gard to any nucleotic n, this opinion has bee	de and/or amino acid sequence disclosed in the international application and necessary to the claimed in established on the basis of:
	a. ty	pe of material	
		a sequence listing	
		table(s) related to t	he sequence listing
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing in written format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
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	L	furnished subseque	antly to this Authority for the purposes of search.
3.	fur	nished, the required st	tatements that the information in the subsequent or additional copies is identical to that in the application as
4.	Addition	al comments:	
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International application No.
PCT/EP2005/002458

В	ox No.	IV Lack of unity of invention
1.		In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has: paid additional fees paid additional fees under protest not paid additional fees
2.		This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	Thi	s Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons:
		1. The first invention (claims 1, 3-11) relates to a hydraulic accumulator having a lid-like closure part.
		2. The second invention (claims 2, 12-13) relates to a hydraulic accumulator having an end part formed in one piece.
		3. The two inventions certainly solve the same problem, namely to produce a lightweight hydraulic accumulator without the need for a lot of material. However, this problem is generally known and therefore cannot be regarded as a "special technical feature" within the meaning of PCT Rule 13.2.
4.	Cons	equently, this opinion has been established in respect of the following parts of the international application: all parts the parts relating to claims Nos.

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PCT/EP2005/002458

Box	No. V Reasoned states	ment under Ru splanations suj	ale 43bis.1(a)(i) with regard to novelty, inven-	tive step or industrial applicability;	
1.	Statement				
	Novelty (N)	Claims	3-11		YE:
		Claims	1,2,12,13		NO
	Inventive step (IS)	Claims	3-11		YES
		Claims	1,2,12,13		NO
	Industrial applicability (IA)) Claims	1,3-11	,	YE:
		Claims		1	NO
2.	Citations and explanations:				
	Reference is m	nade to	the following documer	nts:	

- D1: DE 101 61 797 C1 (HYDAC TECHNOLOGY GMBH) 31 July 2003 (2003-07-31)
- D2: DE 71 13 311 U (MASCHINENFABRIK HAUSHERR R & SOEHNE GMBH)
 28 November 1974 (1974-11-28)
- D5: GB-A-1 531 612 (GREER HYDRAULICS INC) 8 November 1978 (1978-11-08)
- D6: US-A-5 365 736 (YAMAMOTO *ET AL.*) 22 November 1994 (1994-11-22)
- D7: US-A-4 351 363 (HAUG *ET AL.*) 28 September 1982 (1982-09-28)
- 4. D1 shows all the features of claim 1, namely:
- a hydraulic accumulator having an accumulator housing 29 in the form of a tube, in which a separating element 21 movable in the axial direction of the latter separates pressure spaces from one another which adjoin said separating element 21 on both sides, and in which the tube is closed off at least at one end by a lid-like closure part 23 which has a bearing surface for connecting to the relevant end edge of the tube, the bearing surface having a surface part in the form of an annular surface 37, which projects axially into the interior

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

of the tube and is intended for the positive-locking support of the tube wall against radial forces, and also an annular surface which extends in the radial direction and is intended for the positive-locking support of the tube wall against axial forces (see figure 2 and the associated paragraphs 19 and 21).

- 5. D2 is likewise prejudicial to the novelty of claim 1 (see in particular the tubular accumulator housing 1 and the lid 2 or 4, which has two annular surfaces for supporting the tube wall against axial or radial forces, respectively).
- 6. D5 shows all the features of claim 2, namely:
 a hydraulic accumulator (see figures 1 and 4) having an
 accumulator housing in the form of a tube 11, 11', in which a
 separating element 13 movable along the longitudinal axis of
 the latter separates pressure spaces from one another which
 adjoin said separating element 13 on both sides, and in which
 the tube is closed off at one end by an end part formed in one
 piece from the wall of the tube by hot forming (see page 2,
 line 98), a region which is adjacent to and concentric to the
 longitudinal axis being formed on the end part, this region
 being intended for forming a curved dome 22, 22' forming a
 prominence of the end part.
- 7. Claim 2 cannot be regarded as inventive over D6 (see figure 1) or D7 (see figure 4). Both documents disclose an end part formed in one piece from the wall of a tube and having a dome. The production of the end part is not described in the two documents. However, production by hot forming will be regarded merely as a conventional measure.

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 8. The subject matter of claims 3-11 is neither known from nor suggested by the prior art.
- 9. The features introduced by claim 12 are obviously known from D5, D6 and D7.
- 10. The features introduced by claim 13 are known from D5 (see figure 3).